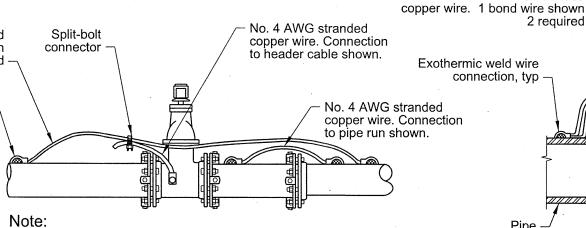


Note:

1. Mechanical joint style shown, other joints similar.

Joint Bond Uncoated & Dielectric Coated Pipe



- 1. Mechanical joint style shown, other joints similar.
- 2. Connect fittings and valves to header cable or pipe run with (1) No. 4 AWG stranded wire.
- 3. Do not burn seals or sealing surface.

Joint Bond Fittings & Valves



No. 2 AWG stranded copper wire. 1 bond wire shown, 2 required. Provide loop for slack. Grout band - Exothermic weld, wrap all exposed metal with PVC tape. Factory installed ½" dia steel rod. Extend rod 1" above concrete coating. Portland cement grout or mortar min 3/4" over all bare metal.

Note:

1. Concrete cylinder pipe, push-on joint shown.

Joint Bond

Mortar Coated Steel Pipe (MCSP) & Concrete Cylinder Pipe (CCP)

General Note:

1. All wire insulation is USE-type or HMWPE-type.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user.

No. 2 AWG stranded

Exothermic weld wire connection, typ

2 required -



PORTLAND WATER BUREAU CITY, OF PORTLAND OREGON

Chief Engineer

Standard Drawing Title

JOINT BONDS

Note:
All material and workmanship shall be in accordance with City of Portland Standard Construction Specifications.

Effective Date Dec 16, 2009

- No. 12 AWG solid copper wire

Mastic or epoxy

No. 12 AWG solid copper wire

coat this weld

Calc. Book No.

Baseline Report Date Dec 16, 2001

Standard Drawing No. P-755

PWB 1